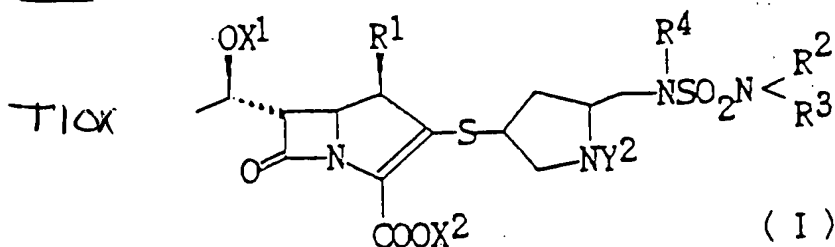


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ABSTRACT OF THE DISCLOSURE

SA A pyrrolidylthiocarbapenem derivative represented by Formula I is provided:



5 Ps wherein R¹ is hydrogen or lower alkyl; R², R³ and R⁴ are hydrogen, lower alkyl which can be substituted or an amino protecting group independently, or R² and R³ together with a nitrogen atom to which R² and R³ are bonded form a saturated or unsaturated cyclic group, or R² and R⁴, or R³ and R⁴ together with two nitrogen atoms and one sulfur atom in the sufamide group form a saturated or unsaturated cyclic group; each cyclic group can further include at least one atom selected from the group consisting of oxygen, sulfur and nitrogen, and each cyclic group can be substituted; 10 x¹ is hydrogen or a hydroxy protecting group; x² is hydrogen, a carboxy protecting group, an ammonio group, an alkali metal or an alkaline-earth metal; and y² is hydrogen or an amino protecting group. EA